ORDINANCE-O- 2012-85

A BILL FOR AN ORDINANCE REPEALING AND REENACTING CHAPTER 16.22 OF THE LONGMONT MUNICIPAL CODE, ADOPTING BY REFERENCE THE 2012 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE

THE COUNCIL OF THE CITY OF LONGMONT, COLORADO, ORDAINS:

Section 7. International Energy Conservation Code Adopted.

Chapter 16.22 of the Longmont Municipal Code is hereby repealed and reenacted to read as follows:

16.22.010 International Energy Conservation Code adopted.

Pursuant to Part 2 of Article 16 of Title 31, CRS, as amended, and Article IV, Municipal Charter of the City of Longmont, Colorado, there is adopted as the energy code of the City, by reference thereto, the International Energy Conservation Code, 2012 Edition, published by the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478, that code to have the same force and effect as if set forth in this chapter in every particular, save and except such portions as are added, amended, deleted, or replaced in this chapter. All references in this code to the International Energy Conservation Code are to the edition referenced above.

16.22.020 Copies--Filing for public inspection.

At the time of adoption, one certified true copy of the International Energy Conservation Code, published by the International Code Council is on file in the office of the city clerk and may be inspected by any interested person between the hours of eight a.m. and five p.m., Monday through Friday, holidays excepted. The city shall keep a copy of the adopted code in the office of the chief enforcement officer for public inspection. The building code, as finally adopted, is available for sale at the office of the city clerk, at a price reflecting cost to the city as established by the city manager, pursuant to this municipal code.

16.22.030 Section C101.1 amended—Title.

International Energy Conservation Code is amended by insertion of “the City of Longmont” in the brackets.

16.22.040 Section C101.5.2 amended—Low energy buildings

Section C101.5.2 of the International Energy Conservation Code is amended by adding the following exception:

3. Seasonal buildings.

16.22.050 Section C103.3.1 amended Approval of construction documents

Section C103.3.1 of the International Energy Conservation Code is amended by replacing the first sentence to read as follows:

When the building official issues a permit, the construction documents shall be approved, in writing or by a stamp which states "APPROVED AS NOTED."

16.22.060 Section C202 addition--Definitions

Section C202 of the International Energy Conservation Code is amended by the addition of the following:

CONDITIONED SPACE: For energy purposes, space within a building that is provided with heating and/or cooling equipment or systems capable of maintaining, through design or heat loss/gain, 50 degrees Fahrenheit during the heating season and 85 degrees Fahrenheit during the cooling season, or communicates directly with a conditioned space. For mechanical purposes, an area, room or space being heated or cooled by any equipment or approved heating appliance.

UNUSUALLY TIGHT CONSTRUCTION: Construction meeting the following requirements:

In buildings of unusually tight construction, combustion air shall be obtained from outside the sealed thermal envelope. In buildings of ordinary tightness, insofar as infiltration is concerned, all or a portion of the combustion air for fuel-burning appliances may be obtained from infiltration when the room or space has a volume of 50 cubic feet per 1,000 Btu/h input. Buildings classified as Group R occupancies, constructed with permits issued on or after March 1, 1989, are classified as buildings with unusually tight construction.

16.22.070 Section C302.1 amended--Design conditions

Section C302.1 of the International Energy Conservation Code is amended by the addition of the following:

The residential design parameters shall be -2 degrees Fahrenheit heating design and 91 degrees Fahrenheit cooling design.

16.22.080 Section C402.2 amended—Table C402.2

Table C402.2 of the International Energy Conservation Code is amended by the addition of footnote f stating the following:

f. Re-roofing of existing buildings requiring insulation be installed per Section C101.4.3 item 5 may be allowed to install an insulation value of R-30 above the roof deck.

16.22.090 Section C403.2.1 amended—Calculation of heating and cooling loads

Section C403.2.1 of the International Energy Conservation Code is amended by the addition of the following:

Residential dwelling unit heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies and any duct systems serving that equipment shall be installed in accordance with ACCA Manual D.

16.22.100 Section C403.2.9 amended—Mechanical systems commissioning and completion requirements.

Section C403.2.9 of the International Energy Conservation Code is amended by the deletion of the first sentence and insert the following:

Mechanical systems shall be completed in accordance with Sections C408.2.2 through C408.2.3.3.

16.22.110 Section C404.1 amended—Service water heating . General

Section C404.1 of the International Energy Conservation Code is amended by the addition of Section 404.1.1 Service water heating.

The minimum Energy Factor for residential dwelling unit water heaters shall be .64 for fuel fired and .98 for electric water heaters.

16.22.120 Section C404.5 amended—Pipe insulation

Section C404.5 of the International Energy Conservation Code is amended by the deletion of the entire section and insert the following:

For automatic-circulating hot water and heat-traced systems, piping shall be insulated with not less than 1 inch of insulation. The first 8 feet of piping in non-hot-water-supply temperature maintenance systems served by equipment without integral heat traps shall be insulated with 0.5 inch of material.

Exception: Heat-traced piping systems shall meet the manufacturer's installation instructions. Untraced piping within a heat traced system shall be insulated with not less than 1 inch of insulation.

16.22.130 Section C404.7.3 amended—Covers

Section C404.7.3 of the International Energy Conservation Code is amended by the deletion of sentence one and insert the following:

Heated pools and inground permanently installed spas heated to 90 degrees Fahrenheit or higher shall be provided with a vapor-retardant cover.

16.22.140 Section C405.1 amended—Electrical power and lighting systems

Section C405.1 of the International Energy Conservation Code is amended by the addition of the following after sentence one:

Functional testing shall be in accordance with Section C408.3.

16.22.150 Section C408 amended—System commissioning

Section C408 of the International Energy Conservation Code is amended by the deletion of Sections C408.1, C408.2, C408.2.1, C408.2.4, C408.2.4.1, C408.2.4.2, C408.2.5, C408.2.5.1, C408.2.5.2, C408.2.5.3 and C408.2.5.4.

16.22.160 Section C408.3 amended—Lighting system functional testing

Section C408.3.1 of the International Energy Conservation Code is amended by the deletion of sentence two.

16.22.170 Section R101.1 amended--Title

International Energy Conservation Code is amended by insertion of "the City of Longmont" in the brackets.

16.22.180 Section R103.3.1 amended Approval of construction documents

Section R103.3.1 of the International Energy Conservation Code is amended by replacing the first sentence to read as follows:

When the building official issues a permit, the construction documents shall be approved, in writing or by a stamp which states "APPROVED AS NOTED."

16.22.190 Section R202 addition--Definitions

Section R202 of the International Energy Conservation Code is amended by the addition of the following:

BEDROOM/SLEEPING ROOM: An enclosed space within a dwelling unit, used or intended to be used for sleeping purposes, meeting the minimum area requirements of the building code or containing a closet or similar area which is easily converted into a closet (such space needs only doors to become a closet).

CONDITIONED SPACE: For energy purposes, space within a building that is provided with heating and/or cooling equipment or systems capable of maintaining, through design or heat loss/gain, 50 degrees Fahrenheit during the heating season and 85 degrees Fahrenheit during the cooling season, or communicates directly with a conditioned space. For mechanical purposes, an area, room or space being heated or cooled by any equipment or approved heating appliance.

UNUSUALLY TIGHT CONSTRUCTION: Construction meeting the following requirements:

In buildings of unusually tight construction, combustion air shall be obtained from outside the sealed thermal envelope. In buildings of ordinary tightness, insofar as infiltration is concerned, all or a portion of the combustion air for fuel-burning appliances may be obtained from infiltration when the room or space has a volume of 50 cubic feet per 1,000 Btu/h input. Buildings classified as Group R occupancies, constructed with permits issued on or after March 1, 1989, are classified as buildings with unusually tight construction.

16.22.200 Section C302.1 amended--Design conditions

Section R302.1 of the International Energy Conservation Code is amended by the addition of the following:

The residential design parameters shall be -2 degrees Fahrenheit heating design and 91 degrees Fahrenheit cooling design.

16.22.210 Section R401.1 amended—Scope

Section R401.1 of the International Energy Conservation Code is amended by the addition of Section 401.1.1 Service water heating.

The minimum Energy Factor for residential dwelling unit water heaters shall be .64 for fuel fired and .98 for electric water heaters.

16.22.220 Section R401.3 amended--Certificate

Section R401.3 of the International Energy Conservation Code is amended by replacing the first two sentences with the following:

A permanent certificate shall be posted in a conspicuous location on the job site.

16.22.230 Section R402.4.1 amended—Building thermal envelope

Section R402.4.1 of the International Energy Conservation Code is amended by replacing the first two sentences with the following:

The building thermal envelope shall comply with Section R402.4.1.1. The building thermal envelope shall be durably sealed to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. The following shall be caulked, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material:

1. All joints, seams and penetrations
2. Site-built windows, doors and skylights
3. Openings between window and door assemblies and their respective jambs and framing
4. Utility penetrations
5. Dropped ceilings or chases adjacent to the thermal envelope
6. Knee walls
7. Walls and ceilings separating a garage from conditioned space
8. Behind tubs and showers on exterior walls
9. Common walls between dwelling units
10. Attic access openings
11. Rim joist junction
12. All other sources of infiltration

16.22.240 Section R402.4.1.1 amended—Installation

Section R402.4.1.1 of the International Energy Conservation Code is amended by the deletion of sentence two and insert the following:

Where required by the code official, an approved third party shall inspect all components and verify compliance in accordance with Section R402.4.1.2.

16.06.250 Section R402.4.1.2 amended—Testing

Section R402.4.1.2 of the International Energy Conservation Code is amended by changing the 3 air changes per hour in zones 3 through 8 in sentence one to 5.

16.22.260 Section R403.5 amended—Mechanical ventilation

Section R403.5 of the International Energy Conservation Code is amended by the addition of the following exception:

Exception: Combustion air intake for natural draft vented water heaters.

16.22.270 Section R403.9.3 amended—Covers

Section R403.9.3 of the International Energy Conservation Code is amended by the deletion of sentence one and insert the following:

Heated pools and inground permanently installed spas heated to 90 degrees Fahrenheit or higher shall be provided with a vapor-retardant cover.